

WHAT IS CLAIMED IS:

1. A package material processing machine comprising:

a feeding device for feeding the package material along a predetermined feed course;

a processing roller having an outer circumferential surface opposite to the feed course, the package material being processed by rotating the processing roller with feeding the package material along the feed course;

a setting device for setting a value correlative with a pitch between a plurality of processed portions on the package material;

a feed amount detection device for detecting information correlative with a feed amount of the package material; and

a rotation control device for controlling a rotation of the processing roller on the basis of the value set through the setting device and the information detected by the feed amount detection device in such a manner that the plurality of the processed portions are arranged in a feed direction of the package material at the pitch corresponding to the value set through the setting device.

2. <sup>The</sup> A package material processing machine according to claim 1, further comprising a mark detection device for detecting a registration mark provided on the package material at a specific position in the feed course, wherein the rotation control device controls the rotation with reference to <sup>a</sup> detection result of the mark detection device <sup>for keeping</sup> so as to keep a certain positional relationship between the registration mark and the

a plurality of the processed portions in the feed direction.

3. A package material processing machine according to claim 2, further comprising a speed control device for controlling rotation speed of the processing roller so as to set relative speed between the processing roller and the package material at a contact portion where the processing roller and the package material contact each other at a predetermined value.

4. A package material processing machine according to claim 3, wherein the speed control device controls the rotation speed of the processing roller to set the relative speed at 0.

5. A package material processing machine according to claim 1, wherein an abrasive surface is provided on the outer circumferential surface of the processing roller.

6. A package material processing machine according to claim 1, wherein a cutting edge is provided on the outer circumferential surface of the processing roller.

7. A package material processing machine according to claim 1, wherein a plurality of cutting edges are provided on the outer circumferential surface of the processing roller with leaving spaces in an axial direction of the processing roller.

8. <sup>The</sup> A package material processing machine according to claim 6,  
 wherein <sup>a</sup> width of the cutting edge in an axial direction of the processing  
 roller is greater than <sup>a</sup> width of the package material in the axial direction.

9. A package material processing machine according to claim 1,  
 wherein a cone-like projection is provided on the outer circumferential  
 surface of the processing roller.

10. A package material processing machine according to claim 1,  
 wherein a heated portion is provided on the outer circumferential surface  
 of the processing roller.

11. A package material processing machine according to claim 1,  
 wherein a projection is provided on the outer circumferential surface of  
 the processing roller, and a top portion of the projection curves along a  
 circumferential direction of the processing roller.

12. A package material processing machine according to claim 11,  
 wherein a slope portion gradually displacing toward a radially inward  
 side of the processing roller with going away from the top portion in the  
 circumferential direction is provided at least one end portion of the  
 projection in the circumferential direction.